№2 $n=24$ $H_0: m_4=8 \quad m_3=4 \quad m_2=6 \quad m_1=6$

$H_1: m_1=m_2=m_3=m_4$

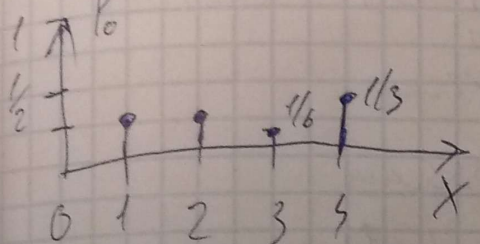
Кр - ?, W - ?

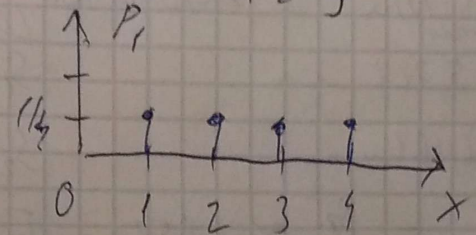
$\alpha=0,2$

$n=2$

$P_0 = \frac{1}{4}\{1\} + \frac{1}{4}\{2\} + \frac{1}{6}\{3\} + \frac{1}{3}\{4\}$

$P_1 = \frac{1}{4}\{1\} + \frac{1}{4}\{2\} + \frac{1}{4}\{3\} + \frac{1}{4}\{4\}$





$\ell = \frac{L_1}{L_0} = \frac{P_1(x_1)P_1(x_2)}{P_0(x_1)P_0(x_2)}$

x_2 / x_1	1	2	3	4
1	1/16	1/16	1/24	1/12
2	1/16	1/16	1/24	1/12
3	1/24	1/24	1/36	1/18
4	1/12	1/12	1/18	1/9

$P_1: \forall x_1, x_2 \in \{1,2,3,4\} \Rightarrow P(x_1)\cdot P(x_2) = 1/16$

ℓ:

x_2 / x_1	1	2	3	4
1	1	1	3/2	3/4
2	1	1	3/2	3/4
3	3/2	3/2	9/4	9/8
4	3/4	3/4	9/8	9/16

$\ell = 3/2 \Leftarrow$

Кр: $(3,1), (1,3), (2,3), (3,2), (3,3)$

$\alpha_1 = P(\vec{x}_n \in Кр \mid H_0) = \frac{7}{36} < 0,2$

$W = P(\vec{x}_n \in Кр \mid H_1) = \frac{5}{16}$

$\alpha_2 = 1 - W = \frac{11}{16}$